

FORTIETH  
ANNUAL REPORT



**Mechanics' Institute**

SAN FRANCISCO



1895



# Mechanics' Institute LIBRARY AND READING ROOM

31 POST STREET, SAN FRANCISCO.

70,000 VOLUMES.

From three hundred to six hundred volumes added monthly. Daily list of additions is posted in the circulation department.

New Books of general interest or special merit are added as soon as published, and duplicated in accordance with the demand.

Members' requests for books not already in the Library receive careful consideration.

The Reference Department is especially strong in mechanical and engineering works, including complete sets of the principal American and Foreign scientific periodicals. It contains, also, the United States and the English Patent Office Reports, complete.

The Reading Room list of periodicals embraces the title of 400 newspapers, magazines, reviews and journals.

Classes in Mechanical, Architectural and Free-hand Drawing, each two evenings a week.

## HOURS OF THE LIBRARY.

|                                    |                    |
|------------------------------------|--------------------|
| LIBRARY, . . . . .                 | 9 A.M. to 10 P.M.  |
| “ (Sundays), . . . . .             | 12:30 to 4:30 P.M. |
| READING AND CHESS ROOMS, . . . . . | 7 A.M. to 10 P.M.  |
| “ “ “ “ (Sundays), . . . . .       | 8 A.M. to 9 P.M.   |

## TERMS OF MEMBERSHIP.

|                            |         |
|----------------------------|---------|
| Entrance Fee, . . . . .    | \$ 1 00 |
| Quarterly Dues, . . . . .  | 1 50    |
| Life Membership, . . . . . | 50 00   |

*Rooms open for inspection day and evening.*

FORTIETH

ANNUAL REPORT

OF THE

# MECHANICS' INSTITUTE

SAN FRANCISCO, CAL.

1895



## PRESIDENTS OF THE INSTITUTE

FROM ITS ORGANIZATION.

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|                         |                             |
|-------------------------|-----------------------------|
| 1855 —BENJAMIN HEYWOOD. | 1866 —H. J. BOOTH.          |
| 1855 —JOHN SIME.        | 1867 —GEORGE K. GLUYAS.     |
| 1856 —R. MATHESON.      | 1868-77—ANDREW S. HALLIDIE. |
| 1857-58—JOHN SIME.      | 1878-79—IRVING M. SCOTT.    |
| 1859 —GEORGE COFRAN.    | 1880-88—P. B. CORNWALL.     |
| 1860 —THOMAS TENNENT.   | 1889-91—DAVID KERR.         |
| 1861 —JOHN P. BUCKLEY.  | 1892-93—IRWIN C. STUMP.     |
| 1862 —B. H. FREEMAN.    | 1893-94—A. S. HALLIDIE.     |
| 1863-64—JOSEPH BRITTON. | 1894-95—A. S. HALLIDIE.     |
| 1865 —CHARLES M. PLUM.  |                             |

## OFFICERS.

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### BOARD OF TRUSTEES—1894-95.

|                                          |                 |
|------------------------------------------|-----------------|
| A. S. HALLIDIE, President,               | GEO. E. DOW,    |
| GEORGE CUMMING, Vice-President,          | FERD. FORMHALS, |
| C. A. MALM, Treasurer,                   | JOSEPH LEGGETT, |
| R. P. DOOLAN, Recording Secretary,       | OSCAR LEWIS,    |
| CHAS. E. MOOSER, Cor. Secretary,         | MARSDEN MANSON, |
| GROVE P. AYERS,                          | HENRY ROOT,     |
| HENRY T. BUSH,                           | F. J. SYMMES,   |
| J. H. CULVER, Secretary, 31 Post Street. |                 |

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### STANDING COMMITTEES.

|                                                                                    |                           |
|------------------------------------------------------------------------------------|---------------------------|
| FINANCE.....                                                                       | SYMMES, AYERS, ROOT       |
| LIBRARY, ROOMS AND BUILDING.....                                                   | LEWIS, MANSON, BUSH       |
| BOOKS AND DONATIONS.....                                                           | LEGGETT, SYMMES, FORMHALS |
| LECTURES AND CLASSES.....                                                          | MANSON, LEGGETT, ROOT     |
| PRINTING AND ADVERTISING.....                                                      | DOW, FORMHALS, AYERS      |
| THE PAVILION COMMITTEE consists of the President, Vice-President<br>and Treasurer. |                           |

THE PRESIDENT is *ex-officio* member of all Committees.



## LIBRARY.

31 POST STREET.

A. M. JELLISON.....Librarian.

### ASSISTANTS.

|                 |                  |
|-----------------|------------------|
| F. B. GRAVES,   | R. D. COLQUHOUN, |
| J. H. WOOD,     | G. N. BREWER,    |
| W. R. WILLIAMS, | W. H. WOOLCOCK,  |

### JANITORS.

|               |              |
|---------------|--------------|
| F. E. HARRIS. | E. HEINRICH. |
|---------------|--------------|

## REPORT OF THE PRESIDENT.

*To the Members of the Mechanics' Institute :*

We have again reached the end of another year in the history of the Mechanics' Institute, an institution that has been in active existence for forty years, and during that period has been closely allied to the best interests of this city and State, and has pursued its policy of progress seldom interrupted by change in its policy, which has always been to serve its members well and do its duty to the community. Without political or religious affiliations, it has exerted and still exerts an influence in the affairs of the State, through the steady and disinterested efforts it has made in the line of good citizenship, progress and intellectuality. May it never waste its strength in stepping beyond its legitimate province or by failing to do its whole duty within its sphere.

It is one of the few quasi-public institutions that carries on a degree of public work through its own resources, and with the exception of one solitary time when it distributed premiums as agent for the State, it has never called on the treasury of the State for one dollar and it has never been the recipient of any endowment from any private citizen except a sum of \$10,000 for a specific object from James Lick, the mechanic and distinguished philanthropist, and \$500 from Mr. John Center, who has always shown himself a friend to the Institute.

This has appeared to many of us as hard and unappreciative, but to-day we feel a modest pride in the fact that this institution has built itself up to its present position by its own efforts and through its own resources.

During the past year, substantial progress has been made in the affairs of the Institute, and the permanency of its location has been determined for some few years to come, and it may safely be said that there is no more centrally situated in-



stitution in San Francisco than the Mechanics' Institute. The moving of the circulating library to the main floor has added greatly to the convenience of the members and is fully appreciated by them, and in like manner the removal of the reading room to its present quarters has placed the newspapers and periodicals easy of access and has avoided the necessity of climbing two long flights of stairs. The lectures and classes are now held in this building, and in consequence have increased in popularity.

The membership is now steadily increasing and has reached 4473, and the recent additions include about 31 per cent. women.

The election of officers for the third time has been held under the proportional representative system, and the smooth and successful working of that system marks its success.

During the past year the Constitution and By-laws have been rearranged and harmonized and two important changes made therein, the sinking fund has been abolished and the treasurership has been transferred from an individual to an incorporated bank. The affairs of the Institute have been placed on a better business basis and its methods made simpler and stricter rules enforced for the protection of the interests of the association.

The purchase of books has been quite limited and all expenses have been cut down within the margin of safety. The changes affected in the building have naturally disturbed many details in the management of the library. These, however, will be adjusted as fast as imperfections are discovered and proper corrections will be made.

The petition of members referred to the Trustees at the last meeting of the Institute, protesting against the removal of the reading-room from its old quarters, was immediately considered by the Board of Trustees, but action on the same was deferred until it could be ascertained whether the objection was well grounded, and at a recent meeting of the Board it was decided that the interests of the greater number would be best served by allowing the reading-room to remain in its new quarters.

During the extensive alterations made in the building, which involved strengthening of the foundation, removing and reconstructing partitions and dividing walls, insertion of new piers and columns, removing and rebuilding the sidewalk, putting in new shelving, removing, rearranging and reshelving almost the entire library of 70,000 volumes, constructing new ventilating flues, lavatories, etc., the business of the library was not interrupted a single business day, and too much praise cannot be awarded to the Building Committee and its Chairman, Mr. Oscar Lewis, and to the Librarian and his intelligent and willing assistants.

Since the alterations have been completed, it has been possible to have regular lectures delivered and classes held in this building. Of the former, seven have been given to large audiences, and of the latter there are three, viz: 1 Class on Mechanical Drawing with 38 pupils, 1 Class on Freehand Drawing with 50 pupils and 1 Class on Mathematics with 10 pupils.

The Trustees have declared that whenever there are a sufficient number of members willing to subscribe enough to pay a teacher on any acceptable subject, the Institute will furnish rooms, light and janitor service free.

The lectures, in all cases, are free to members, and to those interested in electricity I would state that a course of three lectures on each of the three Saturday evenings next ensuing will be given by Professor Corey of the University of California on that subject.

Within the past few months the California School of Mechanical Arts, endowed by James Lick, has been opened. It is the last completed and the generous gift of the late James Lick to the people of this State, and through which habits of industry and thrift and the Mechanical Arts will be taught to young men and women who desire and expect to become proficient in some mechanical pursuit and to go through life with dignity, independence and intellectual strength. The Institute is heartily in sympathy with the purposes of that endowment, and extends to that school its friendship, its respect and good wishes.



Another late citizen of California has also left a sum of money, \$400,000, to the State University, to found a school for a similar purpose, and the late Mrs. Lux, appreciating in like manner the necessity for developing native skilled labor, has bequeathed a very large sum to that end.

In view of this movement on the Pacific Coast to develop and create a class of educated mechanics and artisans, well grounded in the practices and fundamental theories of their callings, it is not encouraging to observe the decrease in this city and State in the manufacturing industries which find employment for the mechanics and artisans which these institutions propose to create, and it is to be deplored that public and private corporations and individual citizens do not unite in encouraging our home industries by all the means in their power that they can reasonably exercise.

The Institute has joined other institutions in a call for a State convention on March 19th, at the Chamber of Commerce, in this city, to consider means to correct this deplorable state of affairs.

The report of the Secretary, which has been read in detail to-night, shows that the Institute has received during the year from all sources, \$70,263.47, and that it expended \$68,761.69, leaving a balance in bank at the end of the fiscal year of \$1,501.78, and all bills paid. Of the receipts, \$5,423.95 was balance on hand first of the year, and \$20,000 borrowed money at 6 per cent. Of the disbursements, besides current expenses, \$14,911.25 was spent in the improvement of this building, and \$6,000.00 borrowed money returned and \$2,884.09 unsettled accounts of the last Citrus Fair. The current receipts and disbursements, omitting these extraordinary items, were as follows: Receipts \$50,263.47. Disbursements \$46,468.13. In the latter is included interest on money borrowed and taxes both charged against the property of the Institute on Folsom and 16th streets, and amounting to \$6,829.99. I must state, however, that the item of books, bookbinding and periodicals, which should amount to at least \$10,000.00 for the year, in fact only amounted to \$7,261.46.

The coming Industrial Fair will open August 13th, and close September 14th next. For the success of this Fair we must all work, and it will require unremitting and intelligent labor on the part of the Trustees to restore the Fair to their former splendor and prestige. With the earnest and unselfish work of the Trustees, and the hearty co-operation of the members I feel confident that the Mechanics' Institute will feel proud of the exhibition, and that it will be a credit to the city and State as well as a financial success.

The year just closed has been a disastrous year for the country. California has felt the oppression, and San Francisco has not, to my recollection, suffered so much since the Fraser river gold mining excitement many years ago. This association, in common with the general interests of the State and city, has suffered also from the depression and stagnation in business. In the worst of it she bravely undertook the improvements in this building that called for the expenditure of so much money. I believe the dark clouds are rolling by, and that we have already obtained glimpses of the silver lining and that with the brightening prospects of the future and careful management during the ever present, this state, this city and this Institute will advance rapidly in the march of progress and prosperity, and in the line of usefulness to man.

Respectfully submitted,

A. S. HALLIDIE,  
President.

SAN FRANCISCO, March 9, 1895.



## FINANCIAL STATEMENT.

For the Year ending February 28, 1895.

## RECEIPTS.

*Library—*

|                         |           |                    |
|-------------------------|-----------|--------------------|
| Entrance fees.....      | \$824 00  |                    |
| Quarterly dues.....     | 21,326 00 |                    |
| Life membership.....    | 250 00    |                    |
| Books and fines.....    | 1,713 46  |                    |
| Rents, Post street..... | 4,425 00  |                    |
| Sundries .....          | 241 18    |                    |
|                         |           | <u>\$28,779 64</u> |

*Pavilion—*

|                                    |            |                  |
|------------------------------------|------------|------------------|
| Rent of building.....              | \$9,904 00 |                  |
| Rent of Hayes street property..... | 4,357 39   |                  |
| Gas and lighting.....              | 890 49     |                  |
| Labor .....                        | 44 60      |                  |
| Sundries .....                     | 477 70     |                  |
|                                    |            | <u>15,674 18</u> |

*Classes—*

|                                 |          |               |
|---------------------------------|----------|---------------|
| Fees from pupils.....           | \$355 50 |               |
| Drawing paper and material..... | 30 20    |               |
|                                 |          | <u>385 70</u> |

*Bills Payable—*

|                               |           |  |
|-------------------------------|-----------|--|
| University of California..... | 20,000 00 |  |
|-------------------------------|-----------|--|

*Cash Balance—*

|                    |          |                    |
|--------------------|----------|--------------------|
| March 1, 1894..... | 5,423 95 |                    |
|                    |          | <u>\$70,263 47</u> |

## EXPENDITURES.

*Library—*

|                                         |            |                    |
|-----------------------------------------|------------|--------------------|
| Books .....                             | \$3,714 11 |                    |
| Binding.....                            | 1,325 01   |                    |
| Expense .....                           | 975 80     |                    |
| Fuel.....                               | 137 05     |                    |
| Furniture.....                          | 938 42     |                    |
| Interest.....                           | 390 85     |                    |
| Insurance.....                          | 997 00     |                    |
| Lighting .....                          | 2,242 48   |                    |
| Periodicals .....                       | 2,222 34   |                    |
| Printing and stationery.....            | 1,165 17   |                    |
| Salaries .....                          | 9,154 85   |                    |
| Taxes .....                             | 1,617 40   |                    |
| Water .....                             | 248 55     |                    |
| Repairs (Post street improvements)..... | 14,911 25  |                    |
|                                         |            | <u>\$40,040 28</u> |

*Pavilion—*

|                           |            |                  |
|---------------------------|------------|------------------|
| Repairs to building.....  | \$1,685 48 |                  |
| Repairs to machinery..... | 25 00      |                  |
| Insurance.....            | 1,046 00   |                  |
| Gas and lighting.....     | 907 74     |                  |
| Salaries.....             | 3,190 00   |                  |
| Taxes.....                | 3,671 97   |                  |
| Water .....               | 134 15     |                  |
| General expenses .....    | 641 41     |                  |
|                           |            | <u>11,301 75</u> |

*Classes—*

|                               |            |                 |
|-------------------------------|------------|-----------------|
| Salaries .....                | \$1,252 20 |                 |
| Printing and advertising..... | 19 25      |                 |
| Lighting .....                | 259 20     |                 |
| Material and labor.....       | 25 38      |                 |
|                               |            | <u>1,556 03</u> |



*Lectures—*

|                               |         |
|-------------------------------|---------|
| Printing and advertising..... | \$27 75 |
| Illustrating.....             | 45 00   |
| Rent and expense of hall..... | 66 80   |
| Lecturers.....                | 10 00   |

149 55

*Folsom Street—*

|               |            |
|---------------|------------|
| Interest..... | \$5,850 00 |
| Taxes.....    | 979 99     |

6,829 99

*Bills Payable—*

|                                |          |
|--------------------------------|----------|
| Donohoe-Kelly Banking Company. | 6,000 00 |
|--------------------------------|----------|

*Twenty-seventh Exposition—*

|                                     |          |
|-------------------------------------|----------|
| Unsettled account of last year..... | 2,884 09 |
|-------------------------------------|----------|

|                               |          |
|-------------------------------|----------|
| Cash balance March 1, 1895... | 1,501 78 |
|-------------------------------|----------|

\$70,263 47

Respectfully submitted,

J. H. CULVER,  
Secretary.

## LIBRARIAN'S REPORT.

*The Board of Trustees:*

GENTLEMEN: I have the honor to submit for your consideration the fortieth annual report, covering the work of the Library for the year ending February 28, 1895. The Library has felt the general depression in business to some extent, but the accompanying statistics indicate the continuance of the steady growth which has been shown in the history of the Institute from the beginning, and which has become more marked in later years.

## MEMBERSHIP.

|                                   |       |
|-----------------------------------|-------|
| In good standing last report..... | 4,371 |
| New members.....                  | 831   |
| Withdrawn and dropped.....        | 737   |
| Net gain.....                     | 94    |

|                                   |       |
|-----------------------------------|-------|
| Membership February 28, 1895..... | 4,465 |
|-----------------------------------|-------|

|                   |       |
|-------------------|-------|
| Honorary.....     | 10    |
| Life.....         | 194   |
| Subscription..... | 4,261 |

## BOOKS.

The accessions for the year have been 3,733 volumes, classified as follows:

|                          |     |                                  |       |
|--------------------------|-----|----------------------------------|-------|
| Bibliography.....        | 19  | Fine arts.....                   | 57    |
| General periodicals..... | 106 | Poetry and drama.....            | 55    |
| Philosophy.....          | 50  | Fiction and juvenile.....        | 1,880 |
| Religion.....            | 42  | Literature, essays, letters..... | 141   |
| Sociology.....           | 391 | Geography and travel....         | 126   |
| Philology.....           | 17  | Biography.....                   | 117   |
| Natural science.....     | 176 | History.....                     | 96    |
| Useful arts.....         | 460 |                                  |       |



These were assigned to :

|                           |       |
|---------------------------|-------|
| Reference department..... | 773   |
| Circulation .....         | 2,960 |

Pamphlets and unbound volumes :

|                 |     |
|-----------------|-----|
| Purchased ..... | 373 |
| Gift .....      | 690 |

There are 68,363 volumes in the Library, the reference department containing 24,912, and the circulation department 43,451 volumes.

#### TABLE OF BOOKS AND ACCESSIONS.

|                                                |        |
|------------------------------------------------|--------|
| Number of volumes reported March 1, 1894 ..... | 66,462 |
| Accessions by purchase .....                   | 2,438  |
| Accessions by gift .....                       | 381    |
| Accessions by binding.....                     | 914    |
|                                                | <hr/>  |
|                                                | 3,733  |
| Lost and paid for .....                        | 92     |
| Worn out and disposed of.....                  | 1,318  |
| Missing—unaccounted for.....                   | 547    |
|                                                | <hr/>  |
|                                                | 1,957  |
| Net increase .....                             | <hr/>  |
|                                                | 1,776  |
| Total, as per count, February 28, 1895.....    | 68,363 |

This table shows the number of volumes in the Library this date, but does not include pamphlets nor volumes of unbound periodicals, of which we have :

|                          |       |
|--------------------------|-------|
| Pamphlets .....          | 2,686 |
| Unbound periodicals..... | 580   |

The books reported "worn out and disposed of" include the volumes that from successive bindings become useless for our purpose, and the occasional mutilated volumes that are discarded. These are sent annually to the State prisons, where they are furbished up and continue their usefulness.

#### BINDING.

|                                                 |       |
|-------------------------------------------------|-------|
| New books, periodicals and pamphlets bound..... | 885   |
| Old books re-bound .....                        | 1,337 |
|                                                 | <hr/> |
|                                                 | 2,222 |
| Repaired in the Library. ....                   | 3,463 |

A large proportion of our smaller books are now bound in buffing, experience showing that the wearing quality is equal, if not superior to roan, at a considerable reduction in cost. We are also experimenting in buckram and canvas, but have not had time to test their suitability for our work.

#### PERIODICALS.

The Library and Reading-room are supplied with 452 representative newspapers and periodicals, many of them in duplicate—

|                |       |
|----------------|-------|
| American ..... | 352   |
| Foreign .....  | 100   |
|                | <hr/> |
|                | 452   |
| Paid .....     | 300   |
| Presented..... | 152   |
|                | <hr/> |
|                | 452   |

In addition, the following magazines are taken for home use, circulating as new books, that is, for one week without privilege of renewal :

|                    |   |                             |   |
|--------------------|---|-----------------------------|---|
| Arena .....        | 3 | Munsey's.....               | 2 |
| Atlantic .....     | 2 | Nineteenth Century.....     | 1 |
| Century.....       | 4 | North American Review....   | 2 |
| Cosmopolitan ..... | 3 | Outing .....                | 1 |
| Eclectic .....     | 2 | Overland .....              | 1 |
| Forum .....        | 2 | Popular Science Monthly ... | 2 |
| Harper's .....     | 5 | Review of Reviews .....     | 2 |
| Lippincott's.....  | 2 | St. Nicholas.....           | 3 |
| McClure's.....     | 2 | Scribner's .....            | 4 |

The issuing of periodicals for home use is one of the most popular and useful features of the Library, and could be extended with advantage to include all of the more important



magazines, the number of copies being regulated by the demand.

The expenditures in this department have been :

|                        |            |
|------------------------|------------|
| For books.....         | \$3,714 11 |
| For periodicals .....  | 2,222 34   |
| For binding .....      | 1,325 01   |
| Total expenditure..... | \$7,261 46 |

#### DONATIONS.

The gifts to the Library were :

|                            |     |
|----------------------------|-----|
| Bound volumes.....         | 381 |
| Unbound and pamphlets..... | 690 |
| Periodicals .....          | 152 |
| Maps.....                  | 12  |

A list of donors is appended.

#### CIRCULATION.

The Library was open 305 days during the year, and there were issued for home use 153,330 volumes, an average daily issue of 506, classified as follows :

|                        |       |                        |         |
|------------------------|-------|------------------------|---------|
| General periodicals... | 2,638 | Fine Arts .....        | 2,092   |
| Philosophy .....       | 1,302 | Poetry and Drama....   | 5,028   |
| Religion .....         | 918   | Fiction and Juvenile.. | 122,487 |
| Sociology.....         | 1,667 | Essays and Letters.    | 4,737   |
| Philology .....        | 344   | Geography and Travel   | 3,895   |
| Natural science .....  | 1,880 | Biography .....        | 3,209   |
| Useful Arts .....      | 2,429 | History .....          | 3,704   |

The largest issue in one day was 1,244 volumes.

I have omitted any statistics of books used in the Library rooms, as, with the unrestricted freedom of the shelves which our members enjoy, it seems impracticable to even approximate such use. The fact that our building is so favorably situated and convenient of access, places our books at the service of our patrons with the least possible waste of time. That this is taken advantage of is shown by our rooms crowded

with readers, and the use of books in the rooms must consequently be very large. It is, therefore, to be regretted that the statistics cannot be more complete.

A constant complaint from the majority of our members is that they cannot get the latest publications promptly. This is met, in a measure, by our system of registering requests and notifying the member in turn by postal card when the book is in; but although our purchases seem to be quite liberal, there have been several instances during the year when a member's number would be "in line" from six weeks to two months before the desired book was reached. There have been 7,625 notices sent for books so reserved.

#### CATALOGUING.

In addition to the current accessions, which are catalogued before they go into circulation, there have been catalogued since the last report :

#### AMERICAN HISTORY.

#### SOCIOLOGY, including—

|                    |                      |
|--------------------|----------------------|
| Political Science. | Socialism.           |
| Political Economy. | Protection.          |
| Labor.             | Free-trade.          |
| Finance.           | Law.                 |
| Money.             | Administration.      |
| Land.              | Education.           |
| Co-operation.      | Manners and Customs. |

#### MEDICINE (not yet completed).

The need of a complete catalogue is felt more keenly as the Library increases in numbers of volumes and membership, and while the work is carried on as fast as possible, the pressure of more urgent business makes the progress discouragingly slow. There should be separate catalogues of the different departments placed in the rooms for the convenience of both members and attendants, as the arrangement of the books upon different floors make the consulting of our main card



catalogue inconvenient. The pamphlets (numbering 2,686) should also be catalogued, as there is much valuable material in that form which is practically lost in their present imperfect arrangement.

## SUNDAYS.

The Library is open on Sundays from 12:30 to 4:30 P. M., for reference and reading purposes only, no books being given out or received on that day. There is an average of 45 visitors daily, and present at any one time 19.

## CLASSES.

Evening classes in Mechanical and Free-hand Drawing are held two evenings a week, the class year being divided into two terms—

Spring term, January to June.

Autumn term, July to December.

The fee is \$1 25 each term, to members and children of members, payable in advance.

There were 118 registered for the autumn, and 86 for the spring term, which is now in session.

## LECTURES.

A number of lectures on topics of interest have been given during the year, and there is a series of University Extension lectures now being delivered every Saturday evening, to be continued until May. They are given in the Library rooms, and are free to members and their friends.

## RECEIPTS.

|                                      |             |
|--------------------------------------|-------------|
| Fees—New members.....                | \$826 00    |
| Life members.....                    | 250 00      |
| Quarterly dues .....                 | 21,384 00   |
| Books lost and paid for (92).....    | 85 25       |
| Fines collected (5,777) .....        | 1,019 10    |
| Extra books.....                     | 610 71      |
| Evening classes.....                 | 359 25      |
| Sundries (drawing paper, etc.) ..... | 29 70       |
| Total receipts at Library.....       | \$24,564 01 |
| Balance March 1, 1894 .....          | 69 50       |
| Total receipts.....                  | \$24,633 51 |
| Deposited with Treasurer.....        | \$24,633 51 |

A table of statistics is appended.

During the year extensive and important alterations have been made in the Library building. The store premises, No. 29 Post street, have been utilized for library purposes, giving us a well lighted and cheerful room on the level of the street, and adding 1850 feet of shelf room to our circulating department. In this room are placed English prose fiction, juvenile books, essays, letters, oratory, humor, administration, education, philology, poetry, drama, fine arts, and the French, German, Spanish and Italian books—in all, 20,715 volumes. The delivery desk is located here, all books being issued and received at this point. Its great popularity with our patrons is indicated by the increase in circulation, which has been twenty-five per cent over the previous six months. Of the members who have joined the Institute since the change, 31 per cent have been ladies.

The second floor still holds the reference department, the patent room and the following classes of circulating books: Philosophy, religion, mythology, sociology, natural science, useful arts, history and biography.



Circulating books from this room are sent by the book elevator to the charging desk in the room below, where they are registered and delivered.

With all the noise and bustle of the delivery desk removed, this floor gives us three excellent study and reference rooms, a fact that seems to be fully appreciated by the many who use them. On Saturday evenings lectures are held in these rooms.

The third story is occupied by the chess-room, class-room, board-room and office.

The basement story has been completely remodeled and divided into two large rooms. The reading-room has been removed from the third story and placed on the east side, giving a large, well-ventilated room, easy of access, with a greater seating capacity than the old room. Some of the bound files of newspapers are placed on permanent shelves in this room.

The next room has been fitted up with shelves and stacks, and the Government reports, the balance of the bound newspaper files, sets of magazines and the stock of duplicate books, in all 9,877 volumes, are arranged in order there, easily accessible to the members.

With our increased facilities, it would seem but a natural consequence that our sphere of usefulness will be extended, and the Mechanics' Institute become a still more potent factor in the welfare and prosperity of this community.

Respectfully submitted,

A. M. JELLISON,  
Librarian.

## SUMMARY OF STATISTICS—1881-1895.

| YEAR ENDING<br>MARCH 1st. | RECEIPTS.              |             |             | EXPENDITURES. |                   |               |                                                |                |              |             | Accessions,<br>volumes ..... | Number of<br>volumes ..... | Circulation ..... | Membership ..... |
|---------------------------|------------------------|-------------|-------------|---------------|-------------------|---------------|------------------------------------------------|----------------|--------------|-------------|------------------------------|----------------------------|-------------------|------------------|
|                           | Fees and<br>dues ..... | Other ..... | Total ..... | Books .....   | Periodicals ..... | Binding ..... | Total, books,<br>periodicals,<br>binding ..... | Salaries ..... | Other .....  | Total ..... |                              |                            |                   |                  |
|                           |                        |             |             |               |                   |               |                                                |                |              |             |                              |                            |                   |                  |
| 1881.....                 | \$8 7 3 7/2            | \$8,713 72  | \$2,726 37  | \$1,243 35    | \$1,386 49        | \$5,356 22    | \$5,341 00                                     | \$3,129 37     | \$16 8 6 3/9 | 1,878       | 30,2 7                       | 47,550                     | 1,537             |                  |
| 1882.....                 | 8,303 75               | 8,450 25    | 1,752 91    | 1,314 18      | 745 48            | 3,702 57      | 5,342 50                                       | 5,259 99       | 14,245 06    | 1,356       | 31,187                       | 46,873                     | 1,524             |                  |
| 1883.....                 | 8,249 50               | 8,318 85    | 2,154 74    | 1,526 63      | 738 19            | 4,419 56      | 5,342 50                                       | 4,724 63       | 14,486 69    | 1,758       | 32,620                       | 44,236                     | 1,618             |                  |
| 1884.....                 | 10,146 08              | 10,244 08   | 2,105 01    | 1,483 73      | 658 35            | 4,206 09      | 4,982 09                                       | 5,636 23       | 14,854 32    | 2,053       | 34,620                       | 51,464                     | 1,919             |                  |
| 1885.....                 | 11,553 00              | 11,597 15   | 4,134 88    | 1,014 74      | 1,327 21          | 6,526 83      | 5,488 15                                       | 7,910 07       | 19,925 05    | 2,792       | 36,328                       | 50,759                     | 2,123             |                  |
| 1886.....                 | 14,123 50              | 14,264 10   | 4,130 22    | 1,051 37      | 1,194 90          | 6,776 59      | 6,132 00                                       | 7,490 91       | 19,899 50    | 3,302       | 38,627                       | 72,121                     | 2,531             |                  |
| 1887.....                 | 15,227 50              | 15,411 75   | 4,198 03    | 1,382 52      | 1,234 89          | 6,315 44      | 6,445 50                                       | 6,819 61       | 20,080 55    | 3,394       | 41,465                       | 89,431                     | 2,852             |                  |
| 1888.....                 | 17,503 50              | 17,712 06   | 4,680 69    | 1,386 63      | 1,438 97          | 7,465 29      | 5,602 00                                       | 6,294 51       | 20,291 80    | 3,809       | 45,051                       | 92,827                     | 3,160             |                  |
| 1889.....                 | 19,803 00              | 20,054 85   | 3,846 71    | 1,850 18      | 2,413 14          | 7,949 03      | 7,540 00                                       | 7,283 63       | 21,672 66    | 3,713       | 47,656                       | 100,503                    | 3,557             |                  |
| 1890.....                 | 21,669 00              | 22,072 90   | 4,824 41    | 1,276 22      | 1,648 07          | 7,749 10      | 8,162 50                                       | 7,612 37       | 23,523 97    | 4,701       | 51,820                       | 114,678                    | 3,970             |                  |
| 1891.....                 | 22,863 50              | 24,263 85   | 4,720 13    | 1,670 81      | 2,594 43          | 8,985 40      | 8,893 00                                       | 7,401 98       | 25,270 38    | 4,147       | 54,982                       | 135,972                    | 4,076             |                  |
| 1892.....                 | 23,333 50              | 24,999 62   | 4,506 41    | 2,310 61      | 1,641 31          | 8,488 33      | 9,712 50                                       | 8,341 12       | 26,541 95    | 4,017       | 57,934                       | 139,000                    | 4,130             |                  |
| 1893.....                 | 26,656 50              | 28,275 55   | 5,097 42    | 1,215 05      | 1,731 43          | 8,043 90      | 10,650 50                                      | 7,251 07       | 28,354 47    | 5,321       | 62,444                       | 152,709                    | 5,541             |                  |
| 1894.....                 | 23,916 00              | 25,936 40   | 5,197 65    | 1,532 09      | 2,477 81          | 9,207 55      | 10,734 65                                      | 7,791 88       | 27,733 78    | 5,086       | 66,462                       | 160,992                    | 4,371             |                  |
| 1895.....                 | 22,460 00              | 24,561 01   | 3,714 11    | 2,222 34      | 1,325 01          | 7,261 46      | 9,154 85                                       | 7,383 45       | 23,799 76    | 3,733       | 68,363                       | 155,330                    | 4,465             |                  |



## GIFTS.

| List of Donors, 1894-1895.                               | Vols. Pamphlets Maps, etc. |     |
|----------------------------------------------------------|----------------------------|-----|
| Alameda Free Library.....                                | I                          |     |
| American Institute of Mining Engineers.....              | 2                          |     |
| American Humanitarian League.....                        | I                          |     |
| Anonymous.....                                           | I                          |     |
| Associated Charities of Boston.....                      | 2                          |     |
| Babcock and Wilcox.....                                  | 3                          |     |
| Ballou, M. M.....                                        | 4                          | I   |
| Board of Education, San Francisco.....                   | 3                          |     |
| Brooklyn Library.....                                    | I                          |     |
| Buffalo Library.....                                     | I                          |     |
| Bureau of Education.....                                 | I                          |     |
| CALIFORNIA—                                              |                            |     |
| Board of Fish Commissioners.....                         | I                          |     |
| Board of Railroad Commissioners.....                     | I                          |     |
| State Library.....                                       | I                          |     |
| State Mining Bureau.....                                 | II                         | I 3 |
| California Academy of Sciences.....                      | 2                          |     |
| California Annual Conference of the M.<br>E. Church..... | I                          |     |
| California State Agricultural Association.....           | 3                          |     |
| California World's Fair Commission.....                  | I 2                        | 29  |
| Cash, Robert.....                                        | I                          |     |
| Chamber of Commerce, San Francisco.....                  | 2                          |     |
| Channing Auxiliary (Calendar).....                       | I                          |     |
| Chicago Public Library.....                              | I                          |     |
| Chinda, S.....                                           | I                          |     |
| Chipman, M. M., M. D.....                                | 2                          |     |
| Clark, Wm. S.....                                        | I                          |     |
| Columbia College.....                                    | 3                          |     |
| Davis, Horace.....                                       | 6                          |     |
| Duque, Luis.....                                         | I                          |     |
| Faust, H. W.....                                         | I                          |     |
| Faylor, Geo. A.....                                      | I                          |     |

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|------------------------------------------------------------|----------------------------|----|
| Formhals, F.....                                           | 2                          |    |
| Free Public Library, Newark, N. J.....                     | I                          |    |
| Frink, Geo. K., M. D.....                                  | 2                          |    |
| General Society of Mechanics and Trades-<br>men, N. Y..... | I                          |    |
| Geographical Society of California.....                    | 3                          |    |
| Godkin, E. L.....                                          | I                          |    |
| Grand Lodge Free and Accepted Masons.....                  | 3                          |    |
| Grubb, S. N.....                                           | 2                          |    |
| Grunsky, C. E., and Manson, Marsden.....                   | I                          | IO |
| Hanks, Henry G.....                                        | I                          |    |
| Haynes, Tilly.....                                         | I                          |    |
| Helena Public Library.....                                 | 4                          |    |
| Herrick, Geo. E.....                                       | I                          |    |
| Hopkins, Rufus C.....                                      | I                          |    |
| Imperial University, Tokio, Japan.....                     | I                          |    |
| Irwin, Col. B. J. D.....                                   | I                          |    |
| Jackson, Byron.....                                        | I                          |    |
| Jones, Miss Julia Clinton.....                             | I                          |    |
| Knights of Pythias.....                                    | I                          |    |
| Leggett, Jos.....                                          | 2                          |    |
| Leland Stanford Jr., University.....                       | I                          | I  |
| Lennox Library.....                                        | I                          |    |
| Library Company of Philadelphia.....                       | 2                          |    |
| Lick Observatory.....                                      | I                          | I  |
| Los Angeles Public Library.....                            | I                          |    |
| Maguire, J. G.....                                         | I 8                        |    |
| Manson, N. J.....                                          | 2                          |    |
| Marshall, Benj., M. D.....                                 | I                          |    |
| Maryland Institute.....                                    | I                          |    |
| Master Car Builders' Association.....                      | I                          |    |
| Mathews, Albert.....                                       | 2                          |    |
| Medical Society of the State of California.....            | I                          |    |
| Mercantile Library, New York.....                          | I                          |    |
| Mexican Central Railway.....                               | I                          |    |
| Mills, D. O.....                                           | I                          |    |



| List of Donors, 1894-1895.             | Vols. Pamphlets Maps, etc. |   |
|----------------------------------------|----------------------------|---|
| Miscellaneous.....                     | 17                         |   |
| Muybridge, Eadweard.....               | 1                          |   |
| Patent office, English.....            | 100                        |   |
| Perkins, Geo. C.....                   | 2                          | 3 |
| Providence Athenæum.....               | 1                          |   |
| Providence Public Library.....         | 1                          |   |
| Public Library, Milwaukee.....         | 1                          |   |
| Public Library, Lynn.....              | 1                          |   |
| Ritter, H. H.....                      |                            | 1 |
| Rotnor, Mrs. S. B.....                 | 1                          |   |
| Russell, John A.....                   | 1                          |   |
| Russian Exposition Co.....             | 3                          |   |
| St. Ignatius College.....              | 1                          |   |
| St. Luke's Hospital.....               | 1                          |   |
| Skiff, F. J. V.....                    | 1                          |   |
| Society of California Pioneers.....    | 4                          |   |
| Sons of the Revolution.....            | 1                          |   |
| Stetefeldt, C. A.....                  | 2                          |   |
| Studebaker Bros. Manufacturing Co..... | 1                          |   |
| Sutro, Adolph.....                     | 6                          |   |
| Tanaka, I.....                         | 1                          |   |
| Turner, H. W.....                      | 1                          |   |

## UNITED STATES—

|                                   |     |     |
|-----------------------------------|-----|-----|
| Bureau of American Republics..... | 3   |     |
| Bureau of Education.....          | 3   |     |
| Bureau of Ethnology.....          | 4   | 5   |
| Bureau of Statistics.....         |     | 1   |
| Civil Service Commission.....     | 1   |     |
| Coast and Geodetic Survey.....    | 1   |     |
| Commissioner of Labor.....        | 4   |     |
| Department of Agriculture.....    | 10  | 321 |
| Department of the Interior.....   | 166 | 17  |
| Department of State.....          |     | 2   |
| Department of the Treasury.....   | 3   |     |
| Department of War.....            | 6   |     |
| Geological Survey.....            | 3   |     |

| List of Donors, 1894-1895.        | Vols. Pamphlets Maps, etc. |   |
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| Nautical Almanac Office.....      | 3                          |   |
| Patent Office.....                |                            | 8 |
| Smithsonian Institute.....        | 5                          | 7 |
| Surgeon General.....              | 1                          |   |
| University of California.....     | 1                          | 6 |
| Wadham, Mrs. Luman.....           | 3                          |   |
| Waterhouse, S.....                |                            | 1 |
| White, M. A. E.....               |                            | 1 |
| Wilson, Horace.....               |                            | 1 |
| World's Columbian Exposition..... | 1                          |   |



## PERIODICALS PRESENTED.

American Institute of Mining Engineers' Transactions, New York.  
 American Patriot, San Francisco (weekly).  
 Anderson Enterprise, Anderson, Cal. (weekly).  
 Astronomical Society of the Pacific, Publications, San Francisco (irregular).  
 Berkeleyan, Berkeley, Cal. (weekly).  
 Breeder and Sportsman, San Francisco (weekly).  
 Bureau of Statistics, Report, Washington, D. C. (quarterly).  
 California Academy of Sciences, Bulletins, Proceedings, Papers, San Francisco.  
 California Architect and Building News, San Francisco, (monthly).  
 California Catholic, San Francisco (weekly).  
 California Demokrat, San Francisco (daily).  
 California Fruit Grower, San Francisco (weekly).  
 California Journal, San Francisco (weekly).  
 California Medical Journal, San Francisco (monthly).  
 California Weather Service Bureau Bulletin, Sacramento, Cal. (weekly).  
 Californian, Bakersfield, Cal. (weekly).  
 Cape Argus, Cape Town, Africa (weekly).  
 Castroville Enterprise, Monterey, Cal. (weekly).  
 Central Californian, San Miguel, Cal. (weekly).  
 Chino Valley Champion, Chino, Cal. (weekly).  
 Christian Leader, Boston (weekly).  
 Citrograph, Redlands, Cal. (weekly).  
 City Argus, San Francisco (weekly).  
 Clear Lake Press, Lakeport, Cal. (weekly).  
 Cloverdale Reveille, Cloverdale, Cal. (weekly).  
 Coming Nation, Tennessee City (weekly).  
 Congressional Record, Washington, D. C.

Contra Costa Gazette, Martinez, Cal. (weekly).  
 Corning Observer, Corning, Cal. (weekly).  
 Daily Colusa Sun, Colusa, Cal.  
 Daily Commercial News, San Francisco.  
 Daily Evening Herald, Nevada City, Cal.  
 Daily News, Red Bluff, Cal.  
 Daily Transcript, Nevada City, Cal.  
 Dalles Times-Mountaineer, Dalles, Or. (weekly).  
 Der Techniker, Philadelphia (monthly).  
 Elevator, San Francisco (weekly).  
 Elko Independent, Elko, Nev. (weekly).  
 Escondido Times, Escondido, San Diego County (weekly).  
 Evening Bulletin, San Francisco (daily).  
 Evening Post, San Francisco (daily).  
 Examiner, San Francisco (daily).  
 Filatelic Facts and Fallacies, San Francisco (monthly).  
 Food, Home and Garden, Philadelphia (monthly).  
 Foot-Hills Weekly Tidings, Grass Valley, Cal.  
 Fresno Republican, Fresno (daily).  
 Germania, San Francisco (weekly).  
 Gilroy Gazette, Gilroy, Cal. (weekly).  
 Grass Valley Union, Grass Valley, Cal. (weekly).  
 Grocer and Country Merchant, San Francisco (weekly).  
 Harmony, San Francisco (monthly).  
 Harvard University Bulletin, Cambridge, Mass. (irregular).  
 Hayes Valley Advertiser, San Francisco (weekly).  
 Hebrew, San Francisco (weekly).  
 Human Nature, San Francisco (monthly).  
 Illustrated Pacific States, San Francisco (monthly).  
 Imports and Exports, Summary, Washington, D. C. (monthly).  
 Impress, San Francisco (weekly).  
 Insurance Times, New York (monthly).  
 Invention, London (monthly).  
 Japan Herald Mail Summary, Yokohama.  
 Jewish Progress, San Francisco (weekly).  
 Jewish Times, San Francisco (weekly).  
 Johns Hopkins University Circulars, Baltimore (monthly).



Kern Standard, Kern City, Cal. (weekly).  
 Lake County Avalanche, Lake County, Cal. (weekly).  
 Lassen Advocate, Susanville, Cal. (weekly).  
 L. A. W. Bulletin, Chicago (weekly).  
 Lodi Review-Budget, Lodi, Cal. (weekly).  
 Los Angeles Saturday Times and Weekly Mirror, Los Angeles, Cal. (weekly).  
 Los Banos, Los Banos, Merced County (weekly).  
 Machinery Market and Exporter, London (irregular).  
 Mail of Woodland, Woodland, Cal. (daily).  
 Marysville Daily Appeal, Marysville, Cal.  
 Mendocino Beacon, Mendocino, Cal. (weekly).  
 Mining and Scientific Press, San Francisco (weekly).  
 Mission Journal, San Francisco (weekly).  
 Monitor, San Francisco (weekly).  
 Monthly Weather Reports, Washington, D. C.  
 Mountain Messenger, Downieville, Cal. (weekly).  
 Napa Register, Napa, Cal. (weekly).  
 Natural Food, London (monthly).  
 News Letter, San Francisco (weekly).  
 Oakland Daily Evening Tribune, Oakland, Cal.  
 Oasis, Arizola, Arizona (weekly).  
 Occident, Berkeley, Cal. (weekly).  
 Occident, San Francisco (weekly).  
 Official Gazette of the Patent Office, Washington, D. C.  
 Official Journal of the Patent Office, London.  
 Olympic, San Francisco (weekly).  
 Oregon State Journal, Eugene, Or. (weekly).  
 Oroville Register, Oroville, Cal. (weekly).  
 Outlook, Santa Monica, Cal. (weekly).  
 Pacific American, San Francisco (monthly).  
 Pacific Churchman, San Francisco (semi-monthly).  
 Pacific Health Journal, Oakland, Cal. (monthly).  
 Pacific Irish-American, San Francisco (weekly).  
 Pacific Medical Journal, San Francisco (monthly).  
 Pacific Rural Press, San Francisco (weekly).  
 Pacific Town Talk, San Francisco (weekly).

Paradise of the Pacific, Honolulu (irregular).  
 Patriotic American, Detroit, Mich. (weekly).  
 Philatelic Californian, San Francisco (monthly).  
 Placer Argus, Auburn, Cal. (weekly).  
 Placer Herald, Auburn, Cal. (weekly).  
 Play and Players, San Francisco (weekly).  
 Plumas National Bulletin, Quincy, Cal. (weekly).  
 Pointer, Chicago and New York (monthly).  
 Political Record, San Francisco (weekly).  
 Press and Horticulturist, Riverside, Cal. (weekly).  
 Queensland Government Gazette, New Zealand (irregular).  
 Redwood City Democrat, Redwood, Cal. (weekly).  
 St. Helena Star, St. Helena, Cal. (weekly).  
 Salinas Weekly Index, Salinas, Cal. (weekly).  
 San Diegan Sun, San Diego, Cal. (daily).  
 San Diego Vidette, San Diego, Cal. (weekly).  
 San Francisco Chronicle (daily).  
 San Francisco Daily Report.  
 San Francisco Journal of Commerce (weekly).  
 San Jose Daily Herald.  
 San Jose Weekly Mercury.  
 San Luis Obispo Tribune, San Luis Obispo, Cal. (weekly).  
 Santa Cruz Surf, Santa Cruz, Cal. (weekly).  
 Sausalito News, Sausalito, Cal. (weekly).  
 Seismological Journal of Japan (irregular).  
 Single Tax Courier, St. Louis, Mo. (weekly).  
 Smithsonian Miscellaneous Collections, Washington, D. C.  
 Specifications of Inventions, London.  
 Specifications and Drawings of Patents, Washington, D. C.  
 Star, San Francisco (weekly).  
 Student's Journal, New York (monthly).  
 Technical Society of the Pacific Coast, Transactions, San Francisco (monthly).  
 Textile Manufacturing World, Boston (monthly).  
 Townsend Leader, Port Townsend, Wash. (weekly).  
 Traveller, San Francisco (monthly).  
 Twentieth Century, New York (weekly).



United States Consular Reports, Washington, D. C.  
 United States Government Publications, Monthly Catalogue,  
 Washington, D. C.  
 Urn, New York (monthly).  
 Vancouver Independent, Vancouver, Wash. (weekly).  
 Variety, San Francisco (weekly).  
 Victoria Weekly Colonist, Victoria, British Columbia.  
 Voice of Labor, San Francisco (weekly).  
 Wasp, San Francisco (weekly).  
 Weekly Colusa Sun, Colusa, Cal.  
 Weekly Galt Gazette, Galt, Cal.  
 Weekly Independent, Elko, Nev.  
 Weekly People's Cause, Red Bluff, Cal.  
 Weekly Red Bluff News, Red Bluff, Cal.  
 Weekly Register, Mobile, Ala.  
 Wood and Iron, San Francisco (monthly).  
 Yreka Journal, Yreka, Cal. (weekly).

## GENERAL LIST OF PERIODICALS, 1895.

ABC Guide, San Francisco (monthly).  
 Academy, London (weekly).  
 All the Year Round, London (monthly).  
 American Academy of Political and Social Science, Annals, Philadelphia  
 (bi-monthly).  
 American Agriculturist, New York (monthly).  
 American Antiquarian, Chicago (bi-monthly).  
 American Architect and Building News, Boston (weekly).  
 American Catholic Quarterly Review, Philadelphia.  
 American Chemical Journal, Baltimore (monthly).  
 American Economic Association, Publications, Baltimore (bi-monthly).  
 American Engineer and Railroad Journal, New York (monthly).  
 American Field, Chicago (weekly).  
 American Gas Light Journal, New York (weekly).  
 American Geologist, Minneapolis (monthly).  
 \*American Institute of Mining Engineers, Transactions, New York.  
 American Institute of Electrical Engineers, Transactions, New York  
 (monthly).  
 American Journal of Mathematics, Baltimore (quarterly).  
 American Journal of Philology, Baltimore (quarterly).  
 American Journal of Psychology, Worcester, Mass. (quarterly).  
 American Journal of Science, New Haven (monthly).  
 American Machinist, New York (weekly).  
 American Meteorological Journal, Boston (monthly).  
 American Monthly Microscopical Journal, Washington, D. C.  
 American Naturalist, Philadelphia (monthly).  
 \*American Patriot, San Francisco.  
 American Society of Civil Engineers, Transactions, New York.  
 American Society of Mechanical Engineers, Transactions, New York.  
 American Statistical Association, Publications, Boston (quarterly).  
 \*Anderson Enterprise, Anderson, Cal. (weekly).  
 Annalen der Physik und Chemie, Leipsic (monthly).  
 Annalen der Physik und Chemie Beiblatter, Leipsic (monthly).  
 Annales de Chimie et de Physique, Paris (monthly).  
 Annales des Mines, Paris (monthly).  
 Annales des Ponts et Chaussées, Paris (monthly).  
 Annals of Hygiene, Philadelphia (monthly).  
 Architectural Era, Boston (monthly).

\* Presented.



Architectural Review, Boston (semi-quarterly).  
 Arena, Boston (monthly).  
 Argonaut, San Francisco (weekly).  
 Arizona Weekly Star, Tucson, A. T. (weekly).  
 Army and Navy Journal, New York (weekly).  
 Army and Navy Register, Washington, D. C. (weekly).  
 Art (l'), Paris (monthly).  
 Art Amateur, New York (monthly).  
 Art Journal, London (monthly).  
 Art (l') pour Tous, Paris (monthly).  
 Association of Engineering Societies, Journal, Chicago (monthly).  
 \*Astronomical Society of the Pacific, Publications, San Francisco (irregular).  
 Astrophysical Journal, Northfield, Minn. (monthly).  
 Athenæum, London (weekly).  
 Atlanta Constitution, Atlanta, Ga. (weekly).  
 Atlantic Monthly, Boston.  
 Baltimore Sun, Baltimore (weekly).  
 Banner of Light, Boston (weekly).  
 Berg-und-Huettenmaennische Zeitung, London (weekly).  
 \*Berkeleyan, Berkeley, Cal. (weekly).  
 Bismarck Weekly Tribune, Bismarck, N. D. (weekly).  
 Blacksmith and Wheelwright, New York (monthly).  
 Blackwood's Edinburgh Magazine, New York (monthly).  
 Bon Ton (le), New York (monthly).  
 Bookbuyer, New York (monthly).  
 Book-seller, London (monthly).  
 Borderland, London (quarterly).  
 Boston Daily Journal.  
 Boston Weekly Transcript.  
 Braithwaite's Retrospect, London (semi-annual).  
 \*Breeder and Sportsman, San Francisco (weekly).  
 British Association for the Advancement of Science, Report (London).  
 British Chess Magazine, London (monthly).  
 British Journal of Photography, London (weekly).  
 Brooklyn Eagle, Brooklyn, N. Y. (weekly).  
 Buffalo Courier, Buffalo, N. Y. (weekly).  
 Builder, London (monthly).  
 Bulletin, Sydney (weekly).  
 \*Bureau of Statistics, Report, Washington, D. C. (quarterly).  
 \*California Academy of Sciences, Bulletins, Proceedings, Papers, San Francisco.  
 \*California Architect and Building News, San Francisco (monthly).

\* Presented.

\*California Catholic, San Francisco (weekly).  
 \*California Demokrat, San Francisco (daily).  
 \*California Fruit Grower, San Francisco (weekly).  
 \*California Journal, San Francisco (weekly).  
 \*California Medical Journal, San Francisco (monthly).  
 \*California Weather Service Bulletin, Sacramento (weekly).  
 \*Californian, Bakersfield, Cal. (weekly).  
 \*Cape Argus, Cape Town, Africa (weekly).  
 Cape Times, Cape Town, Africa (weekly).  
 Carpentry and Building, New York (monthly).  
 \*Castroville Enterprise, Monterey, Cal. (weekly).  
 Catholic World, New York (monthly).  
 \*Central Californian, San Miguel, Cal. (weekly).  
 Century Illustrated Monthly Magazine, New York.  
 Chambers's Journal, London (monthly).  
 Chatauquan, Meadville, Pa. (monthly).  
 Chemical News, London (weekly).  
 Chemical Society Journal, London (monthly).  
 Chicago Times-Herald (daily).  
 Chicago Tribune (weekly).  
 \*Chino Valley Champion, Chino, Cal. (weekly).  
 \*Christian Leader, Boston (weekly).  
 Cincinnati Gazette (weekly).  
 \*Citrograph, Redlands, Cal. (weekly).  
 \*City Argus, San Francisco (weekly).  
 \*Clear Lake Press, Lakeport, Lake Co., Cal. (weekly).  
 Clipper, New York (weekly).  
 \*Cloverdale Reveille, Cloverdale, Cal. (weekly).  
 \*Coming Nation, Tennessee City (weekly).  
 Commercial and Financial Chronicle, New York (weekly).  
 Commercial Herald and Market Review, San Francisco (weekly).  
 Comptes rendus hebdomadaires de l'Académie des Sciences, Paris (weekly).  
 \*Congressional Record, Washington, D. C.  
 Contemporary Review, London (monthly).  
 \*Contra Costa Gazette, Martinez, Cal. (weekly).  
 Cornhill Magazine, London (monthly).  
 \*Corning Observer, Corning, Cal. (weekly).  
 Cosmopolitan, New York (monthly).  
 Courier-Journal, Louisville, Ky. (weekly).  
 Critic, New York (weekly).  
 Current Literature, New York (monthly).  
 Curtis' Botanical Magazine, London (monthly).  
 \*Daily Colusa Sun.

\* Presented.



\*Daily Commercial News, San Francisco.  
 \*Daily Evening Herald, Nevada City, Cal.  
 \*Daily News, Red Bluff, Cal.  
 \*Daily Transcript, Nevada City, Cal.  
 \*Dalles Times-Mountaineer, Dalles, Oregon (weekly).  
 Decorator and Furnisher, New York (monthly).  
 Demorest's Family Magazine (monthly).  
 \*Der Techniker, Philadelphia (monthly).  
 Deutsche Rundschau, Berlin (monthly).  
 Dial, Chicago (monthly).  
 Dinglers Polytechnisches Journal, Stuttgart (weekly).  
 Eclectic Magazine, New York (monthly).  
 Economist, London (weekly).  
 Edinburgh Review, London (quarterly).  
 Education, Boston (monthly).  
 Educational Review, New York (monthly).  
 Electrical Engineer, New York (weekly).  
 Electrical Review, London (weekly).  
 Electrical Review, New York (weekly).  
 Electrician, London (weekly).  
 \*Elevator, San Francisco (weekly).  
 \*Elko Independent, Elko, Nevada (weekly).  
 Engineer, London (weekly).  
 Engineer, New York (bi-weekly).  
 Engineering, London (weekly).  
 Engineering and Building Record and Sanitary Engineer, New York (weekly).  
 Engineering and Mining Journal, New York (weekly).  
 Engineering Magazine, New York (monthly).  
 Engineering News and American Railroad Journal, New York (weekly).  
 English Illustrated Magazine, London (monthly).  
 English Mechanic and World of Science, London (weekly).  
 Erythea, Berkeley Cal. (monthly).  
 \*Escondido Times, Escondido, San Diego Co., Cal. (weekly).  
 \*Evening Bulletin, San Francisco (daily).  
 \*Evening Post, San Francisco (daily).  
 Evening Star, Washington, D. C. (daily).  
 \*Examiner, San Francisco (daily).  
 Farmers' Tribune, Minneapolis (weekly).  
 Federated Institution of Mining Engineers, Transactions, London.  
 \*Filatelic Facts and Fallacies, San Francisco (monthly).  
 Fliegende Blatter, Munich (weekly).  
 \*Food, Home and Garden, Philadelphia (monthly).

\* Presented.

\*Foot Hills Weekly Tidings, Grass Valley.  
 Forest and Stream, New York (weekly).  
 Forthnightly Review, London (monthly).  
 Forum, New York (monthly).  
 Frank Leslie's Popular Monthly, New York (monthly).  
 Franklin Institute, Journal, Philadelphia (monthly).  
 \*Fresno Republican, Fresno (daily).  
 Galveston Semi-weekly News, Galveston, Texas (weekly).  
 Garden and Forest, New York (weekly).  
 Gazette des Beaux-Arts, Paris (monthly).  
 Geographical Journal, (including the proceedings of the Royal Geographical Society), London (monthly).  
 Geological Society, Quarterly Journal, London.  
 Geological Society of America, Bulletin, Rochester, N. Y. (irregular).  
 \*Gilroy Gazette, Gilroy, Cal. (weekly).  
 Good Housekeeping, Springfield, Mass. (monthly).  
 Good Words, London (monthly).  
 Graphic, London (weekly).  
 \*Grass Valley Union, Grass Valley, Cal. (weekly).  
 \*Grocer and Country Merchant, San Francisco (weekly).  
 Guide, San Francisco (daily).  
 Guy's Hospital Reports, London (annual).  
 Hall's Journal of Health, New York (monthly).  
 \*Harmony, San Francisco (monthly).  
 Harper's Bazar, New York (weekly).  
 Harper's Monthly Magazine, New York.  
 Harper's Weekly, New York.  
 Harvard University Bulletin, Cambridge (irregular).  
 \*Hayes Valley Advertiser, San Francisco (weekly).  
 \*Hebrew, San Francisco (weekly).  
 Helena Weekly Herald, Helena, Montana.  
 Horseman, Chicago (weekly).  
 Hub, New York (monthly).  
 \*Human Nature, San Francisco (monthly).  
 Illustrated American, New York (weekly).  
 Illustrated London News, London (weekly).  
 Illustrated London News, New York (weekly).  
 Illustrated Official Journal (Patents) London (monthly).  
 \*Illustrated Pacific States, San Francisco (monthly).  
 \*Imports and Exports, Summary, Washington D. C. (monthly).  
 Independent, New York (weekly).  
 Industry, San Francisco (monthly).  
 Industries and Iron, London (weekly).

\* Presented.



Inland Architect, Chicago (monthly).  
 Institution of Civil Engineers, Proceedings, London.  
 Institution of Mechanical Engineers, Proceedings, London (quarterly).  
 Institution of Naval Architects, Transactions, London (bi-monthly).  
 \*Insurance Times, New York (monthly).  
 \*Invention, London (monthly).  
 Iron Age, New York (weekly).  
 Iron and Steel Institute, Journal (biennial).  
 Irrigation Age, Chicago (monthly).  
 \*Japan Herald Mail Summary, Yokohama (semi-weekly).  
 Jenness-Miller Magazine, New York (monthly).  
 \*Jewish Progress, San Francisco (weekly).  
 \*Jewish Times, San Francisco (weekly).  
 Johns Hopkins University Studies, Baltimore.  
 \*Johns Hopkins University Circulars, Baltimore (monthly).  
 Journal of Geology, Chicago (semi-quarterly).  
 Journal of Political Economy, Chicago (quarterly).  
 Judge, New York (weekly).  
 Kate Field's Washington, Washington, D. C. (weekly).  
 \*Kern Standard, Kern City (weekly).  
 Ladies' Home Journal, Philadelphia (monthly).  
 \*Lake County Avalanche, Lakeport, Cal. (weekly).  
 Lancet, London (weekly).  
 \*Lassen Advocate, Susanville, Cal. (weekly).  
 \*L. A. W. Bulletin, Chicago (weekly).  
 Leather Manufacturer, New York (monthly).  
 Lend a Hand, Boston (monthly).  
 Leslie's Weekly Illustrated (New York).  
 Library Journal, New York (monthly).  
 Life, New York (weekly).  
 Lippincott's Magazine, Philadelphia (monthly).  
 Literary News, New York (monthly).  
 Literary World, Boston (fortnightly).  
 Littell's Living Age, Boston (weekly).  
 \*Lodi Review-Budget, Lodi (weekly).  
 Longman's Magazine, London (monthly).  
 \*Los Angeles Saturday Times, Weekly Mirror, Los Angeles, Cal., (weekly).  
 \*Los Banos, Los Banos, Merced County, Cal. (weekly).  
 Lucifer, London (monthly).  
 \*Machinery Market and Exporter, London (irregular).  
 Macmillan's Magazine, New York (monthly).  
 McClure's Magazine, New York (monthly).

\* Presented.

\*Mail of Woodland, Woodland, Cal. (daily).  
 Maine State Press, Portland, Me. (weekly).  
 Manufacturer and Builder, New York (monthly).  
 Marine Engineer, London (monthly).  
 \*Marysville Daily Appeal, Marysville, Cal.  
 Medical News, Philadelphia (weekly).  
 Medico-Chirurgical Transactions, London.  
 \*Mendocino Beacon, Mendocino, Cal. (weekly).  
 Mining and Scientific Press, San Francisco (weekly).  
 Mining Journal, London (weekly).  
 \*Mission Journal, San Francisco (weekly).  
 Mode Illustrée, London (monthly).  
 Monist, Chicago (quarterly).  
 \*Monitor, San Francisco (weekly).  
 \*Monthly Weather Reports, Washington, D. C.  
 Morning Call San Francisco (daily).  
 \*Mountain Messenger, Downieville, Cal. (weekly).  
 Munsey's Magazine, New York (monthly).  
 Music, Chicago (monthly).  
 Musical Courier, New York (weekly).  
 \*Napa Register, Napa, Cal. (weekly).  
 Nation, New York (weekly).  
 National Association for the Promotion of Social Science, Transactions, London.  
 National Car and Locomotive Builder, New York (monthly).  
 \*Natural Food, London (monthly).  
 Nature, London (weekly).  
 New England Historical and Genealogical Register, Boston (quarterly).  
 New England Magazine, Boston (monthly).  
 New Mexican Review, Santa Fé (weekly).  
 New Review, London (monthly).  
 New York Herald (daily).  
 New York Ledger (weekly).  
 New York Times (daily).  
 New York Tribune (daily).  
 New York World (daily).  
 \*News Letter, San Francisco (weekly).  
 News Letter, San Francisco (weekly).  
 Nineteenth Century, (New York edition) (monthly).  
 Nineteenth Century, London (monthly).  
 North American Review, New York (monthly).  
 Northwestern Lumberman, Chicago (weekly).  
 Notes and Queries, London (weekly).

\* Presented.



\*Oakland Daily Evening Tribune, Oakland, Cal.  
 \*Oasis, Arizola, Arizona (weekly).  
 \*Occident, Berkeley, Cal. (weekly).  
 \*Occident, San Francisco (weekly).  
 \*Official Gazette of the Patent Office, Washington, D. C.  
 \*Official Journal of the Patent Office, London.  
 \*Olympic, San Francisco (weekly).  
 Open Court, Chicago (weekly).  
 \*Oregon State Journal, Eugene, Or. (weekly).  
 \*Oroville Register, Oroville, Cal. (weekly).  
 Outing, New York (monthly).  
 \*Outlook, Santa Monica, Cal. (weekly).  
 Overland Monthly, San Francisco.  
 \*Pacific American, San Francisco (monthly).  
 \*Pacific Churchman, San Francisco (semi-monthly).  
 \*Pacific Health Journal, Oakland (monthly).  
 \*Pacific Irish-American, San Francisco (weekly).  
 Pacific Electrician, San Francisco (monthly).  
 \*Pacific Medical Journal, San Francisco (monthly).  
 Pacific Rural Press, San Francisco (weekly).  
 \*Pacific Town Talk, San Francisco (weekly).  
 Pall Mall Budget, London (weekly).  
 \*Paradise of the Pacific, Honolulu (irregular).  
 Pathological Society of London, Transactions.  
 \*Patriotic American, Detroit, Mich. (weekly).  
 Peterson's Magazine, Philadelphia (monthly).  
 \*Philatelic Californian, San Francisco (monthly).  
 Philosophical Review, Boston (bi-monthly).  
 Phrenological Journal, New York (monthly).  
 Picayune, New Orleans (weekly).  
 Pittsburg Commercial Gazette, Pittsburg (weekly).  
 \*Placer Argus, Auburn, Cal. (weekly).  
 \*Placer Herald, Auburn, Cal. (weekly).  
 \*Play and Players, San Francisco (weekly).  
 \*Plumas National Bulletin, Quincy, Cal. (weekly).  
 \*Pointer, Chicago and New York (monthly).  
 \*Political Record, San Francisco (weekly).  
 Political Science Quarterly, New York.  
 Popular Science Monthly, New York.  
 Popular Science News, Boston (monthly).  
 Portfolio, London (monthly).  
 Portland Daily Press, Portland, Me.  
 Portland Transcript, Portland, Me. (weekly).

\* Presented.

\*Press and Horticulturist, Riverside, Cal. (weekly).  
 Public Opinion, Washington, D. C. (weekly).  
 Publishers' Weekly, New York.  
 Puck, New York (weekly).  
 Punch, London (weekly).  
 Quarterly Illustrator, New York.  
 Quarterly Journal of Economics, Boston.  
 Quarterly Journal of Microscopical Science, London.  
 Quarterly Review, New York.  
 \*Queensland Government Gazette, New Zealand (irregular).  
 Railroad Gazette, New York (weekly).  
 \*Redwood City Democrat, Redwood, Cal. (weekly).  
 Reflector, New York (monthly).  
 Republic, St. Louis (weekly).  
 Republic, Washington (weekly).  
 Review of Reviews, (New York edition) (monthly).  
 Revue de la Mode, Paris (monthly).  
 Revue des Deux Mondes, Paris (monthly).  
 Rocky Mountain News, Denver, Col. (weekly).  
 Royal Agricultural Society, Journal, London.  
 Royal Astronomical Society, Memoirs, London.  
 Royal Society, Philosophical Transactions, London.  
 Royal Society, Proceedings, London.  
 Royal United Service Institution, Journal, London.  
 Sacramento Daily Record Union, Sacramento, Cal.  
 \*St. Helena Star, St. Helena, Cal. (weekly).  
 St. Nicholas, New York (monthly).  
 \*Salinas Weekly Index, Salinas, Cal.  
 Salt Lake Tribune, Salt Lake (weekly).  
 \*San Diegan Sun, San Diego, Cal. (daily).  
 \*San Diego Vidette, San Diego, Cal. (weekly).  
 San Francisco Abend-Post (daily).  
 San Francisco Chronicle (daily).  
 San Francisco Daily Report.  
 San Francisco Hotel Gazette (weekly).  
 \*San Francisco Journal of Commerce, (weekly).  
 Sanitarian, New York (monthly).  
 \*San Jose Herald (daily).  
 \*San Jose Weekly Mercury.  
 \*San Luis Obispo Tribune, San Luis Obispo, Cal. (weekly).  
 \*Santa Cruz Surf, Santa Cruz, Cal. (weekly).  
 \*Sausalito News, Sausalito, Cal. (weekly).  
 Saturday Review, London (weekly).

\* Presented.



School of Mines Quarterly, New York.  
 Science Gossip, London (monthly).  
 Scientific American, New York (weekly).  
 Scientific American Supplement, New York (weekly).  
 Scientific American, Builder edition, New York (weekly).  
 Scribner's Magazine, New York (monthly).  
 \*Seismological Journal of Japan, Yokohama.  
 Shoppell's Modern Houses, New York (quarterly).  
 Short Stories, New York (monthly).  
 \*Single Tax Courier, St. Louis, Mo. (weekly).  
 \*Smithsonian Miscellaneous Collections, Washington, D. C.  
 Société Chimique de Paris, Bulletin, Paris (semi-monthly).  
 Société Industrielle de Mulhouse, Bulletin, Paris (monthly).  
 Society of Chemical Industry, Journal, London (monthly).  
 Society of Engineers' Transactions, London.  
 \*Specifications of Inventions, London.  
 \*Specifications and Drawings of Patents, Washington, D. C.  
 Spectator, London (weekly).  
 Spirit of the Times, New York (weekly).  
 Spokesman of the Carriage, Harness and Implement Trades, Cincinnati (monthly).  
 Springfield Sunday Republican, Springfield, Mass. (weekly).  
 \*Star, San Francisco (weekly).  
 Statistical Society, Journal, London.  
 Stockton Independent, Stockton, Cal. (daily).  
 Steamship, London (monthly).  
 Street Railway Journal, New York (monthly).  
 \*Students' Journal, New York (monthly).  
 \*Technical Society of the Pacific Coast, Transactions, San Francisco (monthly).  
 \*Textile Manufacturing World, Boston (monthly).  
 Times, Philadelphia (daily).  
 Times, London (daily).  
 Toronto Globe, Toronto, Canada (weekly).  
 Torrey Botanical Club, Bulletin, New York (monthly).  
 \*Townsend Leader, Port Townsend, Wash. (weekly).  
 \*Traveller, San Francisco (monthly).  
 \*Twentieth Century, New York (weekly).  
 Truth, London (weekly).  
 United Service, Philadelphia (monthly).  
 \*United States Consular Reports, Washington, D. C.  
 \*United States Government Publications, Monthly Catalogue, Washington, D. C.

\* Presented.

United States Naval Institute, Proceedings, Annapolis (quarterly).  
 \*Urn, New York (monthly).  
 \*Vancouver Independent, Vancouver (weekly).  
 \*Variety, San Francisco (weekly).  
 \*Victoria Weekly Colonist, Victoria, B. C.  
 Virginia City Chronicle, Virginia, Nev. (daily).  
 Vogue, New York (weekly).  
 Voice, New York (weekly).  
 \*Voice of Labor, San Francisco (weekly).  
 Washington Post, Washington, D. C. (daily).  
 Wasp, San Francisco (weekly).  
 \*Wasp, San Francisco (weekly).  
 Wave, San Francisco (weekly).  
 \*Weekly Colusa Sun, Colusa, Cal.  
 \*Weekly Galt Gazette, Galt, Cal.  
 Weekly Globe Democrat, St. Louis.  
 \*Weekly Independent, Elko, Nev.  
 \*Weekly People's Cause, Red Bluff, Cal.  
 \*Weekly Red Bluff News, Red Bluff, Cal.  
 Weekly Register, Mobile, Ala.  
 Weekly Scotsman, Edinburgh.  
 Westminster Review, (New York ed.) (monthly).  
 Wilson's Photographic Magazine, New York (monthly).  
 \*Wood and Iron, San Francisco (monthly).  
 Yale Review, Boston (quarterly).  
 Youth's Companion, Boston (weekly).  
 \*Yreka Journal, Yreka, Cal. (weekly).  
 \* Presented.



## ANNUAL MEETING.

The annual meeting of the Mechanics' Institute was held in the rooms of the Institute, No. 31 Post street, Saturday evening, March 9, 1895.

The assemblage was called to order at 8 o'clock by President A. S. Hallidie, and after the reading of minutes of the last meeting, reports from the Librarian, Secretary and President, the following report from the Judges of Election was presented:

SAN FRANCISCO, March 2, 1895.

*To the Trustees of the Mechanics' Institute :*

GENTLEMEN: We hereby report as to the election of Trustees for the Institute, which took place on Tuesday last, February 26th, the following results:

The number of votes cast was 1,000, that of the two preceding elections, under the proportional and preferential plan, having been 905 in 1893 and 853 in 1894. There were on this occasion 16 candidates, and the seven elected are as follows: Grove P. Ayers, Ernst A. Denicke, Richard P. Doolan, Will E. Fisher, Ferdinand Formhals, Howard C. Holmes, Rodney Kendrick.

On the votes being counted for first choice, it was found that 7 ballots were so marked that the intentions of the voter could not be ascertained; the quota was therefore taken on the remaining 993 votes, which, divided by 7, gives 141 and 6 over. Dropping the fraction, the quota was therefore 141. No candidate received a quota on first choice; hence there was no surplus to distribute, and the elimination therefore commenced immediately after the ballots had been counted for first choice. Messrs. Ayers, Doolan, Fisher and Holmes were elected on full quotas. Messrs. Denicke, Formhals and Kendrick on 137,

139 and 141, respectively. Exclusive of the 7 ballots improperly marked, as above stated, 32 could not be used in electing candidates, because, when they were reached, the candidates marked on them had been either elected or eliminated previously. But nearly or fully all of them contained the names of candidates who had been so elected. A printed proof showing in a table the entire transfers in detail will be added herewith as soon as it can be got up.

J. SAULMAN,  
HENRY TOOMY,  
ALFRED CRIDGE,  
Judges of Election.

On motion the report was received and approved.

No further business being presented, the Chair announced that the next order would be the installation of the Trustees elect, by the committee appointed for that purpose, consisting of Hon. Adolph Sutro, E. Knowlton and R. O. Oakley. A letter was received from Mr. Sutro, regretting his inability to be present, but said, "though absent in flesh would be present in spirit," and commended the Institute as deserving the support of all persons having the advancement of San Francisco at heart.

Mr. Knowlton and Mr. Oakley then requested the Trustees elect, viz.: Ayers, Denicke, Doolan, Fisher, Formhals, Holmes and Kendrick, to take position in front, which was done and they then administered the oath of office, which was taken and subscribed to in accordance with the Constitution.

Mr. Knowlton then read an original poem, wherein he made some flattering allusions to each Trustee, and gave considerable good advice for their future guidance.

The meeting then adjourned.



# MECHANICS' INSTITUTE

SAN FRANCISCO, CAL.

## INDUSTRIAL DRAWING CLASSES

1895-1896.

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MONDAYS AND THURSDAYS

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Class Hours, 7:30 P.M. to 9:30 P.M. at the  
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A copy of the rules, conditions of entrance, and all information can be obtained from the Librarian, 31 Post Street.

*Committee on Lectures  
and Classes.*

{ JOSEPH LEGGETT,  
GROVE P. AYERS,  
ERNST A. DENICKE.